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Report No.: 8003-070
Rev. No.: 0
Work Assignment No.: 019-2JZZ
Contract No.: 68-WP-0051
July 27, 1992

Ms. Sandra Foose
Pre-Remedial Assistant WAM
U.S. Environmental Protection Agency
Region II-Environmental Services Division
Edison, NJ 08837

Dear Ms. Foose:

This letter summarizes the results of the Hazard Ranking System (HRS) screening conducted for the Georgia Pacific Corporation (GPC) Site, U.S. Environmental Protection Agency (EPA) CERCLIS ID # NJD002514750, located at 175 Derousse Avenue, Pennsauken, Camden County, New Jersey, to determine whether placement on the National Priorities List (NPL) is warranted. The GPC Site, which occupies 13.2 acres of land, is bordered to the west by the Delaware River and to the north, east, and south by land owned by the Amerada Hess Oil Company. The site is located in a industrial section of Pennsauken, which is encircled by densely populated urbanized area. A total population of approximately 343,000 people live within a four mile distance of the site, due to its proximity to Philadelphia, Camden, and Pennsauken.

The GPC Site is an active paper recycling facility which is currently listed as a Treatment, Storage, and Disposal (TSD) facility under interim status by Resource Conservation and Recovery Act (RCRA) guidelines. Scrap paper material accepted by GPC is shredded at the plant and any plastic/metal is removed. The shredded paper is then processed/mulched into a wet slurry, which is rolled and dried for use as a heavy grade paper backing for gypsum wallboard. The plant generated process wastewater (and site stormwater runoff) is diverted through screening and to primary clarification, with 95 percent of the effluent being reclaimed back into the recycling operation. The remaining 5 percent of plant generated effluent is released to an engineered synthetically-lined aeration lagoon, with a 2,000,000 gallon capacity. After stabilization in the lagoon, effluent is delivered to a secondary clarifier before being released from the treatment system. GPC was issued a New Jersey Pollution Discharge Elimination System (NJPDES) permit No. NJ0004669 in December 1983, for a discharge to the Delaware River. In March 1990, the Delaware River Basin Commission (an agency led by the States of New Jersey, Pennsylvania, and Delaware; and the EPA developing policies and procedures to control the discharge of toxic substances into the river) requested that a grab water sample be collected from the aeration lagoon and from the facilities permitted outfall. Chemical analysis of the lagoon sample verified the presence of chromium and lead at elevated concentration levels. However, the sample collected from the outfall did not exceed any permit limitations for all parameters.

To enhance efforts in regards to wastewater treatment, GPC was issued a permit in September 1989 to construct and operate a treatment works consisting of an aerated stabilization tank. In July 1991, the operation of the tank was initiated assisting in the on-site treatment of plant generated wastewater.

A review of the available information related to the GPC Site, resulted in the possible documentation of a groundwater pathway score of 88.56. The lined aeration lagoon is identified as the sole waste source, due to the presence of lead and chromium in the wastewater. The NJPDES permit for the facility was modified in January 1987 to include a requirement that GPC monitor actual or potential discharges to groundwater from the lagoon. Five monitoring wells (one upgradient, four encircling the lagoon) were subsequentially drilled on the site. Chemical analysis of groundwater samples collected from the wells on a quarterly basis, detected varying concentrations of lead in all samples. However, the lagoon was dismissed as the source of the contamination due to the greatest concentration levels of lead detected in the upgradient monitoring well (during all sampling episodes). Therefore, the groundwater pathway was evaluated on the potential to release of inorganic constituents from the lined lagoon.

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The GPC Site is located above the Potomac-Raritan-Magothy (PRM) aquifer system. The PRM generally consists of layers of sand with gravel and confining units of silts and clays. However, the site is located above the outcrop area for the PRM system, which is solely comprised of highly permeable layers of Pleistocene sand and gravel. Since the GPC Site is situated above an area where the PRM aquifers are hydraulically interconnected, a potential release could impact all drinking water wells within a four-mile vicinity of the site. Altogether, an approximate 127,348 people obtain potable water from municipal supply wells within the target distance limit. The potential impact to a significant population utilizing groundwater as a drinking water supply, is the driving factor for the groundwater pathway score.

Information gathered for the screening GPC site evaluation resulted in the calculation of a potential surface water pathway score of 1.94. The facility is currently permitted for a discharge to the Delaware River from the on-site wastewater treatment system. Historical Discharge Monitoring Report's filed by GPC, have noted only one parameter in excess of permit limitations, Biochemical Oxygen Demand (BOD). CERCLA-eligible hazardous substances (i.e. chromium, lead, and zinc) detected in the aeration lagoon, have never exceeded permit limitations at the discharge outfall. Therefore, the surface water pathway for the GPC site was evaluated on a potential to release basis.

Although adequate targets are identifiable along the surface water drainage course for the GPC Site, the determining factor for the low pathway score is the Delaware River. Due to a high flow (11,448 cubic feet per second) in the river, the dilution weight factors minimize the effect that a potential release of contaminants from the GPC site may impose. However, there are approximately 10 miles of wetland frontage along the Delaware River, which is also a designated brackishwater fishery utilized by recreational anglers. Furthermore, within a one mile distance downstream lies a habitat potentially supportive of Federal/State endangered and threatened species.

The potential soil exposure pathway score for the GPC Site is 1.07. There has been no soil sampling conducted at the site, therefore an area of suspected contamination is limited to the soils surrounding the aeration lagoon. Although there are thirty-five on-site workers and a significant nearby resident population, access to the site (more specifically the aeration lagoon) is impeded by an intact chain link fence and a 24-hour surveillance system. Therefore, the potential for exposure to suspected areas of contaminated soil is estimated as being minimal, resulting in the low pathway score.

The potential air pathway score for the GPC Site, was determined to be 0.20. The component score was derived from a low potential to release and waste characteristics factors. The sole waste source documentable for GPC, is the lined aeration lagoon. All hazardous substances (i.e. inorganic constituents) identified in the source were deposited in a liquid state, the effect being a low potential for a gaseous substance or particulate matter release. However, there is significant potentially affected population (approximately 343,000 people) residing within a four-mile distance of the GPC facility. Additionally, there is approximate 7 acres of wetlands and habitats potentially supportive of Federal/State endangered and threatened species within a one mile distance downstream of the site.

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In summary, after a review of the available information the potential overall screening HRS score for the Georgia-Pacific Corporation Site is 44.29. However, it must be noted that the driving factor of the calculated site score is the potentially contaminated population utilizing groundwater within a four-mile distance of the facility. There is no evidence that migration of CERCLA-eligible hazardous substances from the lined aeration lagoon has ever occurred and monitoring wells encircling the lagoon will continued to be sampled for chemical analysis per requirements for the NJPDES permit. The engineered liner is inspected on a regular basis by GPC and New Jersey Department of Environmental Protection (NJDEP) personnel, to insure that the integrity of the material is secure. Furthermore, the GPC Site is currently listed as a TSD facility and is subject to RCRA Subtitle C corrective action. Therefore, after a review of all available information, a recommendation that the site be deferred to RCRA for response and a **Site Evaluation Accomplished** is given.

RCRA Deferral SC

Sincerely,

Steven T. McNulty

STEVEN T. MCNULTY
SITE MANAGER

JOHN D. RIECKHOFF
PRE-REMEDIAL PROGRAM MANAGER

DENNIS STAINKEN, PH.D.
WORK ASSIGNMENT MANAGER

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HRS DOCUMENTATION RECORD
Georgia Pacific Corporation - 07/28/92

1. Site Name: Georgia Pacific Corporation
   (as entered in CERCLIS)

2. Site CERCLIS Number: NJD 002514750

3. Site Reviewer: Steven T. McNulty

4. Date: 7/27/92

5. Site Location: Pennsauken/Camden, New Jersey
   (City/County,State)

6. Congressional District:

7. Site Coordinates: Single

   Latitude: Longitude:

	Score
Ground Water Migration Pathway Score (Sgw)	88.56
Surface Water Migration Pathway Score (Ssw)	1.94
Soil Exposure Pathway Score (Ss)	1.07
Air Migration Pathway Score (Sa)	0.20
Site Score	44.29

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

WASTE QUANTITY

Georgia Pacific Corporation - 07/28/92

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Aeration Lagoon

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Aeration Lagoon	
b. Source Type	Surface Impoundment	
c. Secondary Source Type	N.A.	
d. Source Volume (yd3) | Source Area (ft2)	10000.00	0.00
e. Source Volume/Area Value	4.00E+03	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	4.00E+03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Chromium	< 2	YES	1.1E-01	ppm
Lead	< 2	YES	1.8E-01	ppm

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Aeration Lagoon	GW-SW-SE-A	4.00E+03	0.00E+00	4.00E+03

WASTE QUANTITY

Georgia Pacific Corporation - 07/28/92

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	100	10
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+05	100	56
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+06	100	100
SW: GW to SW, DW	Tox./Persistence	1.00E+02	100	10
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+03	100	18
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+04	100	32
Soil Exposure:Resident	Toxicity	1.00E+04	100	32
Soil Exposure: Nearby	Toxicity	1.00E+04	100	32
Air	Toxicity/Mobility	2.00E-01	100	2

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

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GROUND WATER MIGRATION PATHWAY SCORESHEET
Georgia Pacific Corporation - 07/28/92

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer		
Aquifer: PRM Aquifer System		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	9
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	324
3. Likelihood of Release	550	324
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Well	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.24E+03
8d. Population (lines 8a+8b+8c)	**	2.24E+03
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	2.26E+03
12. Targets (including overlaying aquifers)	**	2.26E+03
13. Aquifer Score	100	88.56
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	88.56

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Georgia Pacific Corporation - 07/28/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	0
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	250
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	50
3c. Potential to Release by Flood (lines 3a x 3b)	500	500
4. Potential to Release (lines 2d+3c)	500	500
5. Likelihood of Release	550	500
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	5.00E+00
10d. Population (lines 10a+10b+10c)	**	5.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	1.00E+01
13. DRINKING WATER THREAT SCORE	100	1.94

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Georgia Pacific Corporation - 07/28/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	500
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+05
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	56
Targets		
18. Food Chain Individual	50	0.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	3.00E-07
19d. Population (lines 19a+19b+19c)	**	3.00E-07
20. Targets (lines 18+19d)	**	3.00E-07
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Georgia Pacific Corporation - 07/28/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	500
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+06
24. Hazardous Waste Quantity	*	100
25. Waste Characteristics	1000	100
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	3.75E-03
26d. Sensitive Environments (lines 26a+26b+26c)	**	3.75E-03
27. Targets (line 26d)	**	3.75E-03
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	1.94
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	1.94

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Georgia Pacific Corporation - 07/28/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: PRM Aquifer System		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	9
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	324
3. Likelihood of Release	550	324
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	1.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	0.20

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET

Georgia Pacific Corporation - 07/28/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	324
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	5.00E+03
14. Hazardous Waste Quantity	*	100
15. Waste Characteristics	1000	18
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	0.00E+00
18. Targets (lines 16+17d)	**	0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Georgia Pacific Corporation - 07/28/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	324
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	5.00E+04
22. Hazardous Waste Quantity	*	100
23. Waste Characteristics	1000	32
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.20
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.20

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Georgia Pacific Corporation - 07/28/92

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	100
4. Waste Characteristics	100	32
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	8.80E+04

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Georgia Pacific Corporation - 07/28/92

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	5.00E+00
13. Area of Contamination	100	0.00E+00
14. Likelihood of Exposure	500	0.00E+00
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	100	32
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	0.00E+00
20. Targets (lines 18+19)	**	0.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	1.07

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Georgia Pacific Corporation - 07/28/92

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	60
2c. Potential to Release	500	60
3. Likelihood of Release	550	60
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E-01
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	2
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.08E+02
8d. Population (lines 8a+8b+8c)	**	1.08E+02
9. Resources	5	5.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	3.00E+00
10c. Sens. Environments(lines 10a+10b)	***	3.00E+00
11. Targets (lines 7+8d+9+10c)	**	1.36E+02
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.98E-01

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

Record Information

1. Site Name: Georgia Pacific Corporation
   (as entered in CERCLIS)
2. Site CERCLIS Number: NJD 002514750
3. Site Reviewer: Steven T. McNulty
4. Date: 7/27/92
5. Site Location: Pennsauken/Camden, New Jersey
   (City/County,State)
6. Congressional District:
7. Site Coordinates: Single

   Latitude: 39 58'38.0" Longitude: 075 03'52.0"

Site Description

1. Setting: Urban
2. Current Owner: Private - Industrial
3. Current Site Status: Active
4. Years of Operation: Active Site , from and to dates: 1925 to present
5. How Initially Identified: RCRA Notification
6. Entity Responsible for Waste Generation:

   - Recyclers

7. Site Activities/Waste Deposition:

   - Surface Impoundment
   - Discharge to Sewer/Surface Water

Waste Description

8. Wastes Deposited or Detected Onsite:

- Inorganic Chemicals

Response Actions

9. Response/Removal Actions:

- Site Access Has Been Restricted
- Other Emergency Action Has Occurred

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- -Treatment,Storage & Disposal Facility

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 5252.0

14. Residential Population Within 4 Miles: 343000.0

Water Use Information

15. Local Drinking Water Supply Source:

- Ground Water (within 4 mile distance limit)
- Surface Water (within 15 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 969350.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

- Municipal (Services over 25 People)

18. Surface Water Adjacent to/Draining Site:

    - River

O = HRS

□ = PRO

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	45
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	0
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	2
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6	6
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			11	15	11
3 Containment	0 (1) 2 3	1	1	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	6
Total Waste Characteristics Score			19	26	24
5 Targets					
Surface Water Use	0 1 (2) 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	6
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
Total Targets Score			12	55	12
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			2508	64,350	12960
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	3.90		20.14

O = HRS

□ = PRO

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	0
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	6
Net Precipitation	0 1 (2) 3	1	2	3	2
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	3
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			14	15	14
3 Containment	0 (1) 2 3	1	1	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	6
Total Waste Characteristics Score			19	26	24
5 Targets					
Ground Water Use	0 1 (2) 3	3	6	9	9
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	40
Total Targets Score			46	49	49
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			12236	57.330	49392
7 Divide line 6 by 57.330 and multiply by 100		S_{gw} =	21.34		86.15

HRS

	S	S^2
Groundwater Route Score (S_{gw})	21.34	455.40
Surface Water Route Score (S_{sw})	3.90	15.21
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		470.61
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		21.69
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		12.54

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	86.15	7421.82
Surface Water Route Score (S_{sw})	20.14	405.62
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		7827.44
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		88.47
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		51.14

WORKSHEET FOR COMPUTING S_M